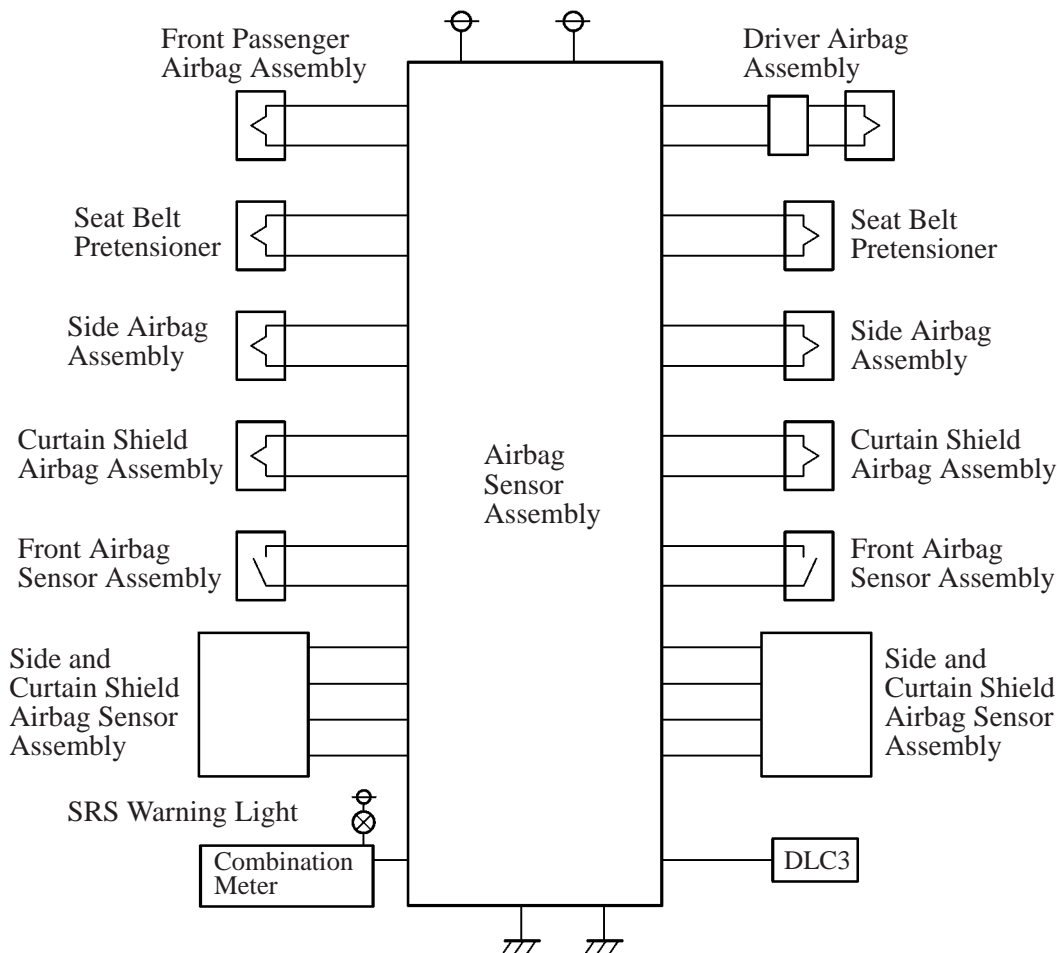


■ SRS AIRBAG SYSTEM

1. General

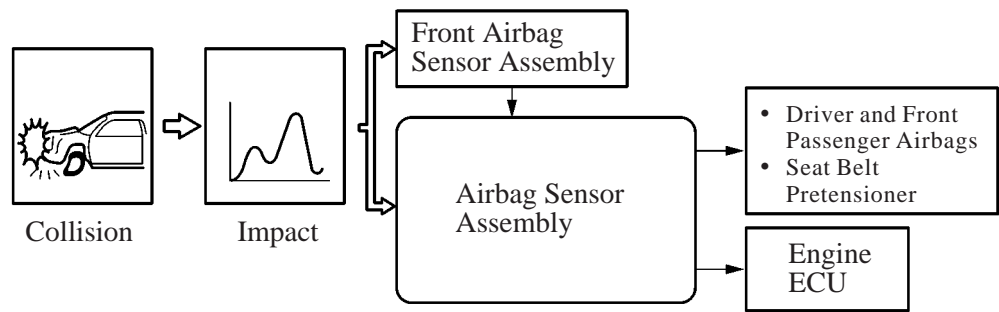
- The SRS (Supplement Restraint System) airbags are standard equipment for the driver and front passenger seats. The SRS airbags help to reduce injuries mainly to the driver's or front passenger's head or chest in the event of a frontal impact collision as supplements to the seat belts.
- This system is a 3-sensor type airbag system to detect the impact during a front collision using the airbag sensor assembly and two front airbag sensor assemblies, and to make the airbag system and seat belt pretensioner operate as well.
The SRS side and curtain shield airbags are optional equipment for the driver and front passenger seats. The SRS side and curtain shield airbags have been designed to help reducing the impact energy that is transmitted to the driver and front passenger in the event of a side collision.
In a side collision, side and curtain shield airbag sensor assembly detects a shock and deploys the side and curtain shield airbags, if the side-to-side shock is greater than a specified value.
- This system has adopted a fuel cut control that stops the fuel pump when the airbag is deployed at the front or side collision.
- The diagnosis system of the SRS airbag has adopted the M-OBDD (Multiplex On-Board Diagnosis).
- The method for clearing (using service wire) the DTCs (Diagnosis Trouble Codes) has been changed.

► Wiring Diagram ◀



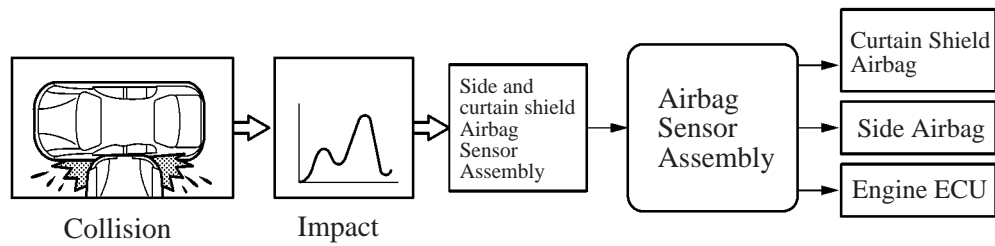
2. System Operation

► Front Airbag Operation ◀



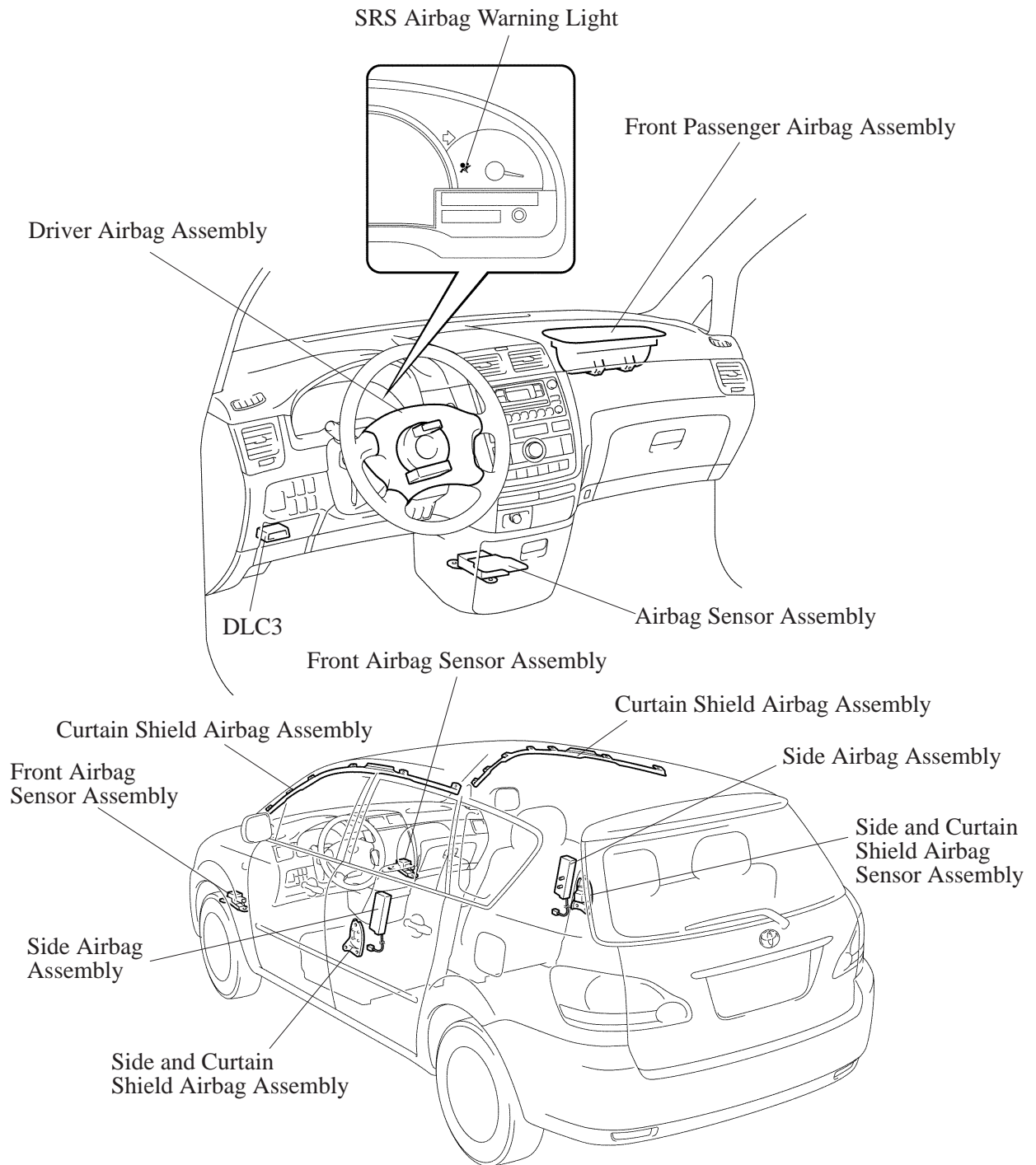
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► Side Airbag Operation ◀



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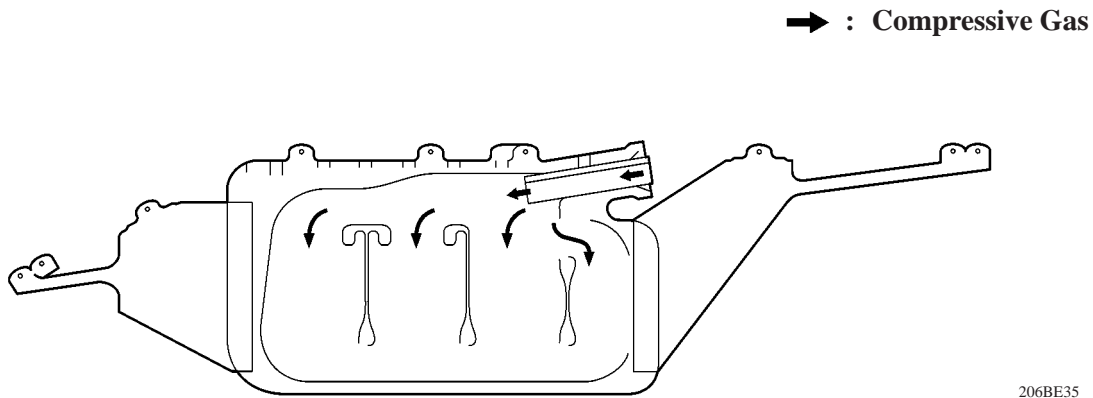
3. Layout of Component



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4. SRS Curtain Shield Airbag

The inflation for this SRS curtain shield airbag is enclosed in the diffuser pipe and located in the roof side rail.



5. Diagnosis System

M-OBD (Multiplex On-Board Diagnosis) can output 5-digit DTCs (Diagnostic Trouble Codes) to the hand-held tester. For details on the DTC chart, refer to the Avensis Verso/Picnic Chassis & Body Repair Manual (Pub. No. RM864E).

In addition, the following changes have been made:

- The check connector has been discontinued, and a DLC3 has been newly provided.
- The method for outputting and clearing the DTCs have been changed.

Service Tip**DTC Output and Clear (Using not hand-held tester)**

1. Present Troubles Codes output:

- a) Turn the ignition switch to the ON position and wait for approx. 20 seconds.
- b) Using SST, connect the terminals Tc and CG of the DLC3.
SST 09843-18040

NOTICE:

Pay due attention to the terminal connecting position to avoid malfunction.

- c) Read the 2-digit DTC as indicated by the number of times the SRS warning light blinks.

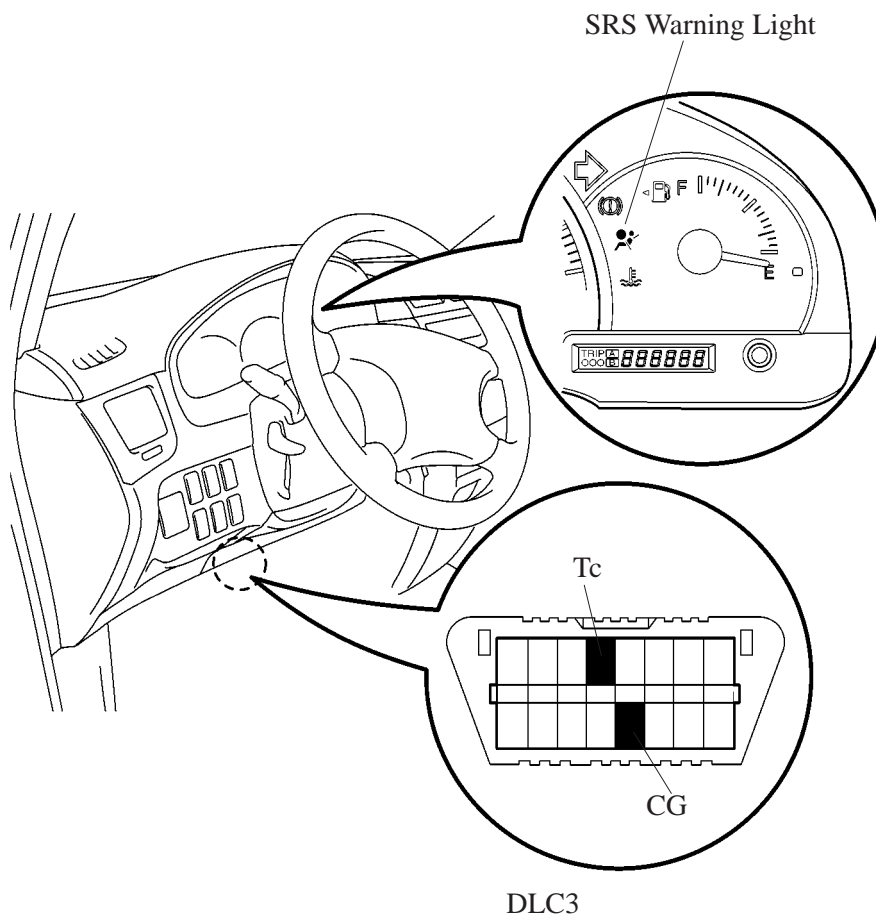
2. Past troubles codes output:

- a) Using SST, connect the terminals Tc and CG of the DLC3.
SST 09843-18040
- b) Turn the ignition switch to the ON position and wait for approx. 20 seconds.

NOTICE:

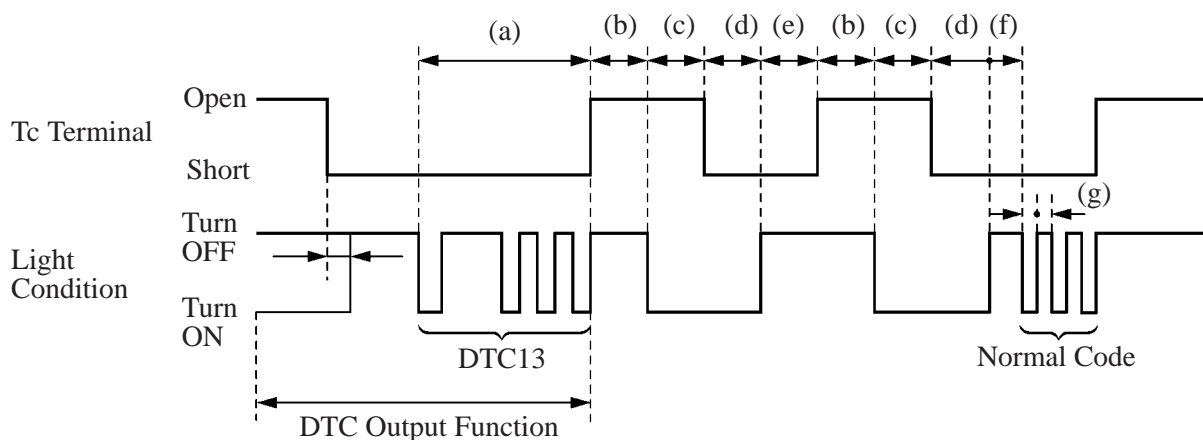
Pay due attention to the terminal connecting position to avoid malfunction.

- c) Read the 2-digit DTC as indicated by the number of times the SRS warning light blinks



3. DTC clear: (Present and past trouble codes)

The DTCs are cleared by opening and shorting the Tc and CG (or ground) terminals of the DLC3 in accordance with the timing chart shown below.



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	Required Value	Tolerance	Description
(a)	Max. 10 sec.	—	The length of time from when the DTC output starts until the system transfers to the clearance judgment mode.
(b)	3.0 sec.	10 %	The length of the time from when the change of the Tc terminal from short to open has been recognized, until the SRS warning light turn ON.
(c)	3.0 sec.	2.0 sec.	The length of time from when the SRS warning light turn ON, until the change of the Tc terminal from open to short has been recognized.
(d)	3.0 sec.	10 %	The length of time from when the change of the Tc terminal from open to short has been recognized, until the SRS warning light turns OFF.
(e)	3.0 sec.	2.0 sec.	The length of time from when the SRS warning light turn OFF, until the change of the Tc terminal from short to open has been recognized.
(f)	Max. 1.0 sec.	—	The length of time for executing the clearing of DTCs.
(g)	0.25 sec.	10 %	The length of time the normal code is output.

DTC Output and Clear (Using hand-held tester)

1. Hook up the hand-held tester to the DLC3.
2. Read the DTCs by following the prompt on the tester screen.
3. Clear the DTCs by following the prompt on the tester screen.

Please refer to the hand-held tester operator's manual for further details.